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L4: Entry 1 of 2 File: DWPI Jan 15, 1988

DERWENT-ACC-NO: 1988-212272
DERWENT-WEEK: 198830

TITLE: Mould for continuous casting of metal - consists of polygon with cooling channels whose sepn. from contact surface of wall increases

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PATENT-ASSIGNEE:

ASSIGNEE	CODE
KRAMA MECH ENG RES INST	KRMC

PRIORITY-DATA: 1986SU-4065170 (May 11, 1986)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SU 1366282 A	January 15, 1988		004	

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
SU 1366282A	May 11, 1986	1986SU-4065170	

INT-CL (IPC): B22D 11/04

ABSTRACTED-PUB-NO: SU 1366282A
BASIC-ABSTRACT:

The mould comprises a casing (1) and contact walls made as a polygon (2) with cooling channels (3). To increase ingot quality, parts (3) are located increasing distances from the contact surface of the wall, from its centre to the edges, as a function of the thermal conductivity of the wall and the channels, etc.

Ingot quality is increased by evening-out the crust formation rate around the ingot perimeter. This reduces risk of longitudinal corner and transfer cracking. Thus with a copper lining and a channel diameter of 0.01 m, the first channel is also 0.01m from the wall surface. The corner angle is Beta=135 degrees for an octagonal mould.

ADVANTAGE - The design intensifies cooling of the polygonal ingot, and also stabilises pouring. Bul.2/15.1.88 /1

TITLE-TERMS: MOULD CONTINUOUS CAST METAL CONSIST POLYGONAL COOLING CHANNEL SEPARATE CONTACT SURFACE WALL INCREASE

DERWENT-CLASS: M22 P53

CPI-CODES: M22-G03A1;

SECONDARY-ACC-NO:
CPI Secondary Accession Numbers: C1988-094836

Non-CPI Secondary Accession Numbers: N1988-161777